**Divisibility and Fraction Operations Unit Test Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **What are the divisibility rules for:**
2. **2**
3. **3**
4. **4**
5. **5**
6. **6**
7. **8**
8. **9**
9. **10**
10. **Determine the divisibility of the following by circling the number(s) it is divisible by:**

|  |  |
| --- | --- |
| **132** | **2 3 4 5 6 8 9 10** |
| **250** | **2 3 4 5 6 8 9 10** |
| **900** | **2 3 4 5 6 8 9 10** |
| **16** | **2 3 4 5 6 8 9 10** |
| **45** | **2 3 4 5 6 8 9 10** |
| **8** | **2 3 4 5 6 8 9 10** |

1. **Draw a factor tree for:**
2. **56**
3. **38**
4. **250**
5. **Find the Greatest Common Factor for:**
6. **48 and 18**
7. **30 and 35**
8. **Reduce the following fractions:**
9. **28/40**
10. **100/250**
11. **Add or subtract (put your answer into lowest terms)**
12. **4/15 + 5/15 =**
13. **13/50 – 8/50 =**
14. **Ashlyn waited after school yesterday for her sister. She waited 20/60 of an hour for her sister to finish math club and 4/60 of an hour for her to get her coat and back pack out of her locker. What was the total fraction of time Ashlyn spent waiting for her sister in lowest terms?**
15. **Mrs. Kidd ate 2/18 of a cake before lunch and then another 5/18 of the cake at lunch and 1/18 of the cake after school. What fraction of the cake did she eat (in lowest terms?)**
16. **Ryan Kidd drove 10/15 of a km towards work, then he drove back 2/15 of a km to visit a gas station, then he drove 1/15 of a km towards work before getting stopped at a red light. The equation 10/15 -2/15 +1/15 describes his journey. What fraction of a kilometer has he driven towards work?**
17. **Grade 8 Challenge questions (not for marks or bonus marks – just for fun!) – put answers into lowest terms**
18. **3/5 x 4/5 =**
19. **12/20 x 2/4 =**
20. **3/5 ÷ 2/3 =**
21. **10/100 ÷ 3/5 =**
22. **Ultra challenge (hint – Remember BEDMAS): 13/15 – 2/5 x 3/6 =**